



US009410497B2

(12) **United States Patent**  
**Igarashi et al.**

(10) **Patent No.:** **US 9,410,497 B2**  
(45) **Date of Patent:** **Aug. 9, 2016**

(54) **ELECTRICAL CONTROL UNIT**

(56) **References Cited**

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 301 days.

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(21) Appl. No.: **14/264,145**

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(22) Filed: **Apr. 29, 2014**

Office Action mailed May 19, 2015 issued in corresponding JP patent application No. 2013-098730 (and English translation).

(65) **Prior Publication Data**

US 2014/0336902 A1 Nov. 13, 2014

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(30) **Foreign Application Priority Data**

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May 8, 2013 (JP) ..... 2013-098730

(57) **ABSTRACT**

(51) **Int. Cl.**

**F02D 41/30** (2006.01)

**F02D 41/20** (2006.01)

**F02M 59/10** (2006.01)

(52) **U.S. Cl.**

CPC ..... **F02D 41/3005** (2013.01); **F02D 41/20**  
(2013.01); **F02D 2041/2003** (2013.01); **F02D**  
**2041/2006** (2013.01);

(Continued)

(58) **Field of Classification Search**

CPC ..... **F02D 41/3005**; **F02D 41/20**; **F02D**  
**2041/2003**; **F02D 2041/2006**; **F02D**  
**2041/2027**; **F02D 2041/2048**; **F02D**  
**2041/2051**; **F02D 2041/2093**; **F02M 59/102**

USPC ..... **701/103**; **123/494**, **479**, **490**  
See application file for complete search history.

An electrical control unit includes a constant voltage supply unit which supplies a constant voltage to a fuel injector, a boosted voltage supply unit which supplies a boosted voltage to the fuel injector, a control unit which controls supply timings of the constant voltage supply unit and the boosted voltage supply unit, and an interrupter which interrupts electric current when a short-circuit occurs in the boosted voltage supply unit. When an interruption of the interrupter is not detected, the boosted voltage supply unit supplies boosted voltage to start a fuel injection and the constant voltage supply unit supplies constant voltage to continue the fuel injection. When an interruption of the interrupter is detected, the constant voltage supply unit and the boosted voltage supply unit advance an interrupted power supply start timing relative to a non-interrupted power supply start timing to prevent delay of a fuel injection start timing.

**5 Claims, 6 Drawing Sheets**

